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		15 march 1956	
MEMORANDUM E	OR: Project Director of roject Contractive		
THROUGH	: Deputy Project Dia	rector	
SUBJECT	: Number of A-1 and	d A-2 Cameras for Detachment A.	
refere <b>nce</b>		Mr. Bissell, dated 13 march 56, Number of A-1 Cameras for (SAPC-4230)	STAT
		(SAPC-4230)	SIAI
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Approved For Release 2009/07/22: CIA-RDP89B00708R000500020005-8

PROPOSAL

Long Focal Length System "C"

March 14, 1956

## LONG FOCAL LENGTH SYSTEM "C"

We have now completed a review of our current costs and an estimate of the costs to complete the "C" system optical design, and the manufacture of all optical parts. On September 13, 1955, we stopped all work on the optical portion of this instrument until a decision could be reached as to how we should best proceed. Previous to this date, we had spent \$6,424.91 in engineering design and overhead, and had ordered \$26,000 worth of glass and fluorite.

On October 1, a meeting of the committee concluded that we should return to 180" focal length, if possible. This increase in focal length must be made at no loss of speed for the effectiveness of the camera is already limited by the availability of light. This, in turn, requires considerably larger pieces of glass. The pieces of fluorite were already delivered and paid for at a cost of \$3,498.60. Some of the smaller pieces of LAK-9 glass had also been delivered by Schott previous to the stop date at a cost of \$3,046.21. Thus, the cost of the initial optical design activity on the first design was \$12,969.72.

Our new cost estimate appears in the attached sheet. It will be noted that an increase appears in two items; the glass will cost \$20,440 more for the new design than for the old, and we are asking for \$4,500 more in optical tooling. Part of this increase in tooling cost is in the cost of larger tools and test plates for the larger lenses, and part is in test tooling arising from the fact that we have a much better understanding of what it will take in the way of testing to assemble these lenses and mirrors into a satisfactory system. Conversely, our present knowledge of the system permits us to reduce our estimate for engineering by a bit over \$10,000, recovering part of the extra glass cost. Some of this is due to our having put in the \$6,000 worth of engineering on the previous system.

The new estimate does not contemplate spares other than a sixth set of optics complete, or instruction manuals separately for the optics. Alignment, focusing and maintenance instructions specifically for the optics are now felt to be best included in the general camera instruction manual rather than in a separate one.

We suggest that the contract be amended as shown on the following page.

Delete Item 46

Add Item 46-a

Provide engineering services to develop the mechanical design for the 180" f/13.8 optical system as described in Projector Division Technical Specification No. 9, dated April 18, 1955.

\$ 21,361.

Delivery - April 1, 1956

Delete Item 47

Add Item 47-a

Construct, test and deliver five (5) 180" f/13.8 optical systems as designed under Item 46-a @ \$19,080

95,400.

Delivery - One (1) July 1, 1956

One (1) September 1, 1956

Two (2) November 1, 1956

One (1) December 1, 1956

Delete Item 48

Add Item 48-a

Construct, test and deliver parts for one system as designed under Item 46-a. Minor assemblies are to be delivered assembled and all parts are to be packaged for domestic shipment and storage.

13,069.

Delivery - One (1) December 1, 1956

Delete Item 49

Delete Item 50

ITEMS	NEW COSTS (WITHOUT G&X)	NEW SELLING PRICE	OLD SELLING PRICE	(New vs. Old) DIFFERENCE	
46-46a	\$ 16,878	21,361	30,724	- 9,363 -	
47-47a	75,380	95,400	55,092 /	+ 40,308 -	
48-48a	$\frac{10,326}{$102,584}$	13,069 \$129,830	6,328 / \$92,144	+ 6,741 \$ 37,686	1049 1363 1686
49		-0 -	5,108	- 5,108	
50		-0- \$129,830	1,123 \$98,375	- 1,123 \$ 31,455	231
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To September 13 we have spent on SPO 24884

Engineering

6,424.91

Glass

\$12,969.72

To finish job per JGB design of December 20 compared to original quote.

## Costs without G&A

	Original Quote May 16, 1955	Present Estimate Sept. 13 to completion
Engineering & Overhead	\$ 29,332	\$ 18,082
Optical Labor & Overhead	6,118	4,988
Tooling	4,000	8,500
Purchases & Sub Contract	12,280	11,605
Glass & Fluorite	26,000	46,440
	\$ 77,730	\$ 89,614

- (1) \$1560 Engineering cost to February 1 + \$8875 + \$7629 from 3238-12
- (2) Includes optical, mechanical and test tooling

Costs to September	13	12,970
Total costs of "C"	Project	\$102,584
Target Price of PE Items on "C"	Project	\$129,830
(New target costs + 13% G&A &	12% Profit)	•